## WHAT IS CLAIMED IS:

15

20

1. A disc for use in a variator of a toroidal continuously variable transmission comprising:

a concave race at least on one side surface thereof

for rolling movement of rollers; and

a spline hole at its center which is meshed with an input shaft;

said disc having a surface hardness of not less than Hv700 at said race; and

having a surface hardness of not more than Hv600 at said spline hole;

wherein at least at a thin portion between said spline hole and an inside circumferential edge of said race is varied in hardness between a hardened layer of a bottom of said spline hole and a hardened layer of said race by an amount of not less than Hv20 per 1-mm depth.

2. A method of fabricating said variator disc of Claim
1 comprising the steps of:

heat treating a blank for said disc for adjusting a surface hardness thereof to not less than Hv700;

annealing said spline hole by high frequency heating while cooling said race; and

finishing said spline hole and said race.

3. The method of fabricating said variator disc as claimed in Claim 2, wherein a cooling jig is positioned

in parallel with said race as defining a minor gap therebetween and said race is cooled by circulating a coolant through said cooling jig.

4. The method of fabricating said variator disc as claimed in Claim 3, wherein said minor gap between said race and said cooling jig is in the range of 0.3 to 0.5 mm.